

**ABSTRACT**

Golf clubs having an embedded inertial measurement unit and a corresponding microprocessor for determining the motion of the head of the golf club. Briefly described, one of a number of embodiments of a golf club comprises a 6DOF inertial measurement unit disposed within the head of the golf club and a microprocessor in communication with the 6DOF inertial measurement unit. The microprocessor is configured to receive data from the 6DOF inertial measurement unit and determine the motion of the head of the golf club.

10